

COLOR LIQUID CRYSTAL DISPLAY DEVICE

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Abstract

PURPOSE: To provide the color liquid crystal display device which has a good contrast in spite of use of less scattering color filters, is wide in visual recognition angle and is low in production cost as the color liquid crystal display device of a system using a liquid crystal as an optical shutter and making coloration by color filters.

CONSTITUTION: This color liquid crystal display device has the liquid crystal cell which has a pair of substrates 2a, 2b, a liquid crystal layer clamped therebetween and is oriented with liquid crystal molecules 5 perpendicularly to the surfaces of the substrates 2a, 2b in the state of not applying a voltage thereto, a pair of orthogonal polarizers which are arranged on the outer side of this liquid crystal cell, a light source 8 which is arranged on the outer side of the polarizer on one side of the liquid crystal, microcolor filters 6 which are arranged on the substrate 2a on the light source 8 side of the liquid crystal and an optical compensation plate 12 which is arranged on the substrate 2b on the side apart from the light source 8 of the liquid crystal cell and functions to compensate the optical anisotropy of the liquid crystal layer. The display is visually recognized from the side apart from the light source 8.

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